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```
#!/bin/sed -f
1 i                                                                    \
/^[^ ]\\{1,\\}[ ][^ ]\\{1,\\}$/! s/^\\(.\\).*$/\\1 0/                  \
:next
s/\(.\)\(.\)\(.\)\(.\)\(.\)/s\/^\1\\(.*\\)[ ]\2\/ \5\3\\1 \4\//
$ a\
s/^[ ]-\\(.\\)[ ]/ 0\\1 /                                              \
s/^[ ]-\\(.*\\)\\([^ ]\\)[ ]/ 0\\1 \\2/                                \
s/^[ ]+\\(.*\\)[ ]\\(.\\)$/ 0\\1\\2 0/                                 \
s/^[ ]+\\(.*\\)[ ]\\(.\\)/ 0\\1\\2 /                                   \
s/^[ ]0//                                                              \
t next                                                                 \
s/\\(.\\)\\(.*\\)[ ]\\(.*\\)$/State:\\1,tape:\\2#\\3/
```


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```
1021+
2032+
3043+
4054+
5065+
6076+
7087+
80a80
a8a7-
a7a6-
a6a5-
a5a4-
a4a3-
a3a2-
a2a1-
a1a0-
a00X0
```

```
/^[^ ]\{1,\}[ ][^ ]\{1,\}$/! s/^\(.\).*$/\1 0/
:next
s/^1\(.*\)[ ]0/ +2\1 1/
s/^2\(.*\)[ ]0/ +3\1 2/
s/^3\(.*\)[ ]0/ +4\1 3/
s/^4\(.*\)[ ]0/ +5\1 4/
s/^5\(.*\)[ ]0/ +6\1 5/
s/^6\(.*\)[ ]0/ +7\1 6/
s/^7\(.*\)[ ]0/ +8\1 7/
s/^8\(.*\)[ ]0/ 0a\1 8/
s/^a\(.*\)[ ]8/ -a\1 7/
s/^a\(.*\)[ ]7/ -a\1 6/
s/^a\(.*\)[ ]6/ -a\1 5/
s/^a\(.*\)[ ]5/ -a\1 4/
s/^a\(.*\)[ ]4/ -a\1 3/
s/^a\(.*\)[ ]3/ -a\1 2/
s/^a\(.*\)[ ]2/ -a\1 1/
s/^a\(.*\)[ ]1/ -a\1 0/
s/^a\(.*\)[ ]0/ 00\1 X/
s/^[ ]-\(.\)[ ]/ 0\1 /
s/^[ ]-\(.*\)\([^ ]\)[ ]/ 0\1 \2/
s/^[ ]+\(.*\)[ ]\(.\)$/ 0\1\2 0/
s/^[ ]+\(.*\)[ ]\(.\)/ 0\1\2 /
s/^[ ]0//
t next
s/\(.\)\(.*\)[ ]\(.*\)$/State:\1,tape:\2#\3/
```